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1-800-Belden1



General Description:

Belden's .050" pitch gray ribbon cable was designed for general purpose electronic interconnect applications. The cable provides reliable mass-termination to standard IDC connectors.

Physical Characteristics (Overall)

Conductor

AWG:

| # Conductors | AWG | Stranding | Conductor Material |
|--------------|-----|-----------|--------------------|
| 26 | 26 | 7x34 | TC - Tinned Copper |

Total Number of Conductors: 26

Conductor Spacing Center to Center: .050

Insulation

Insulation Material:

| Insulation Material | Wall Thickness (in.) |
|--------------------------|----------------------|
| PVC - Polyvinyl Chloride | .010 |

Insulation Resistance: >10,000 Megaohms

Outer Shield

Outer Shield Material:

| Outer Shield Material |
|-----------------------|
| Unshielded |

Overall Cable

Overall Nominal Thickness: .039

Overall Nominal Width: 1.30

Mechanical Characteristics (Overall)

Operating Temperature Range: -40°C To +105°C

Bulk Cable Weight: 43 lbs/1000 ft.

Min. Bend Radius/Minor Axis: 0.500 in.

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

UL Rating: 105°C, 300 V RMS, VW-1

CSA Specification: AWM I A

EU Directive 2011/65/EU (ROHS II): Yes

EU CE Mark: Yes

EU Directive 2000/53/EC (ELV): Yes

EU Directive 2002/95/EC (RoHS): Yes

EU RoHS Compliance Date (mm/dd/yyyy): 07/01/2005

EU Directive 2002/96/EC (WEEE): Yes

EU Directive 2003/11/EC (BFR): Yes

CA Prop 65 (CJ for Wire & Cable): Yes

MIL Order #39 (China RoHS): Yes

Flame Test

UL Flame Test: VW-1

CSA Flame Test: FT1

Plenum/Non-Plenum

Plenum (Y/N): No

Surface Printing (Overall)

Electrical Characteristics (Overall)

Nom. Characteristic Impedance:

| Description | Impedance (Ohm) |
|-------------|-----------------|
| (GS) | 135 |
| (GSG) | 90 |

Nom. Inductance:

| Description | Inductance (µH/ft) |
|---------------|--------------------|
| @ 1 MHz (GS) | .23 |
| @ 1 MHz (GSG) | .15 |

Nom. Capacitance Conductor to Conductor:

| Description | Capacitance (pF/ft) |
|---------------|---------------------|
| @ 1 kHz (GSG) | 23 |
| @ 1 MHz (GS) | 11 |
| @ 1 MHz (GSG) | 18 |

Nominal Velocity of Propagation:

| Description | VP (%) |
|-------------|--------|
| | 67.6 |

Nominal Delay:

| Delay (ns/ft) |
|-------------------|
| 1.48 NS/FT. (GSG) |

Nom. Conductor DC Resistance:

| DCR @ 20°C (Ohm/1000 ft) |
|--------------------------|
| 43 OHMS/1000 FT. MAX. |

Nom. Attenuation:

| Freq. (MHz) | Attenuation (dB/100 ft.) |
|-------------|--------------------------|
| 10 | 3.9 |
| 20 | 6.4 |
| 30 | 8.7 |
| 40 | 13 |
| 50 | 16.9 |
| 60 | 20.1 |
| 70 | 22.5 |
| 80 | 23.9 |
| 90 | 25.1 |
| 100 | 26.4 |

Max. Operating Voltage - UL:

| Voltage |
|-----------|
| 300 V RMS |

Max. Recommended Current:

| Current |
|-------------------------------|
| 1.5 Amps per conductor @ 20°C |

Dielectric Withstand Voltage: 2,000 V RMS

Typical Unbalanced Crosstalk:

| Description | Pulse Rise Time (NS) (MHz) | Near End % (MHz) | Far End % (MHz) |
|----------------------|----------------------------|------------------|-----------------|
| 10 ft. sample length | 3 | 5.2 | 6.2 |
| 10 ft. sample length | 5 | 4.2 | 5 |
| 10 ft. sample length | 7 | 3.3 | 3.8 |

Notes (Overall)

Notes: GS=Ground-Signal Mode; GSG=Ground-Signal-Ground Mode

Polarity Identification (Overall)

Polarity Identification: BLUE POLARITY STRIPE ON #1 CONDUCTOR

Put Ups and Colors:

| Item # | Putup | Ship Weight | Color | Notes | Item Desc |
|-----------------|--------|-------------|-------|-------|-----------------------|
| 9L26026 008H100 | 100 FT | 4.400 LB | GRAY | | 26 #26 STR PVC RIBBON |

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